

## CLAIMS

### WHAT IS CLAIMED IS:

1. A method for reconstructing metabolism of an organism comprising:
  - (a) collecting data regarding the organism's metabolism;
  - (b) linking the data into metabolic pathways;
  - (c) identifying interconnections between the metabolic pathways;
  - (d) creating a map of the organism's metabolism by integrating information obtain in steps (a), (b), and (c).
2. The method of claim 2 wherein the data regarding the organism's metabolism comprises expressed sequence tag data.
3. A method for identifying drug targets comprising:
  - (a) collecting data regarding the organism's metabolism for both non-disease and disease states;
  - (b) linking the data into metabolic pathways;
  - (c) identifying interconnections between the metabolic pathways;
  - (d) creating a map of the organism's metabolism by integrating information obtain in steps (a), (b), and (c).
  - (e) identifying drug targets by comparing differences between non-disease and disease states using the map.